



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

649.4701

Job Sheet 176744



Part No: 649.4701

Job Qty: 1 ea

Part Name: AW119 Cable Cutter System



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/30/18

Job Tracking No:

Due Date: 5/10/18

Created By: Linda Lacelle

Type: SOLD

Description:

Note: 647.4907 rev.F IPP REV:A 12.11.05 NEW ISSUE DD VERF:JLM IPP REV:B AS PER ECR 12-54 13-07-09
JLM VERIFIED BY:DD IPP REV:C 16.08.11 AS PER DWG REV.C DD VERF:JLM IPP REV:D 17.11.08 AS
PER DWG REV.E2 DD VERF:JFS IPP REV:E 18.03.28 AS PER DWG REV.F DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	5/10/18	5/10/18	0.00	0.00	Start Up Stores/Pkg-1		MAY 11 2018
100	Packaging	1 pcs	5/10/18	5/10/18	0.00	0.00	Packaging1-1		JUN 0 1 2018
110	QC	1 pcs	5/10/18	5/10/18	0.00	0.00	QC4		
120	Packaging	1 pcs	5/10/18	5/10/18	0.00	0.00	Packaging3-1		
130	QC21-FG	1 Ea	5/10/18	5/10/18	0.00	0.00	QC21	DAS 53 9-89	JUL 16 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
649.4902	Lower Cutter Assembly	1 Ea (1 ea)	90-Start up Operation	
649.5113 RevD	Wiper Deflector Shim	2 Ea (2 ea)	90-Start up Operation	
MS24694-S62	Screw	2 Ea (2 ea)	90-Start up Operation	
MS27039-1-12	Screw	2 Ea (2 ea)	90-Start up Operation	
NA31330S08KB321	Rivnut cc-ss8KB321	8 Ea (8 ea)	90-Start up Operation	5091792
649.4901	Upper Cutter Assembly	1 Ea (1 ea)	90-Start up Operation	
649.5010	Deflector	1 Ea (1 ea)	90-Start up Operation	
649.5214 RevC	Bracket	1 Ea (1 ea)	90-Start up Operation	
649.5212 RevC	Bracket	1 Ea (1 ea)	90-Start up Operation	
649.4811 RevE	Clip	1 Ea (1 ea)	90-Start up Operation	
649.5012	Deflector	2 Ea (2 ea)	90-Start up Operation	
649.5013	Deflector	2 Ea (2 ea)	90-Start up Operation	
649.5213	Doubler	2 Ea (2 ea)	90-Start up Operation	
649.5011	Deflector	1 Ea (1 ea)	90-Start up Operation	
649.5210	Doubler	2 Ea (2 ea)	90-Start up Operation	
649.4814	Doubler	2 Ea (2 ea)	90-Start up Operation	5064985
649.4816 RevE	Doubler	1 Ea (3 ea)	90-Start up Operation	5059859
601.3493	Quick Release Pin	2 Ea (2 ea)	90-Start up Operation	
649.5211	Shim	1 Ea (1 ea)	90-Start up Operation	
649.4813 RevE	Shim	4 Ea (4 ea)	90-Start up Operation	
649.4812	Shim	3 Ea (3 ea)	90-Start up Operation	
649.4815	Shim	4 Ea (4 ea)	90-Start up Operation	
646.9910	Struts	4 Ea (4 ea)	90-Start up Operation	

3/65

AEROSPACE

100 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 813 632-5200
Email: sales@dartheero.com
www.dartheerospace.com

Container No: S076307



Part: 649.4701

Job No: 176744

Serial No/Batch: S076307

Revision: F

Inspector:

Date: 05/30/18

8 23
23
OVS

647.9014	Strut Bracket	8 Ea (8 ea)	90-Start up Operation
649.5110	Wiper Deflector	2 Ea (2 ea)	90-Start up Operation
649.5111 <i>Rev D</i>	LH Wiper Deflector	1 Ea (1 ea)	90-Start up Operation
649.5112 <i>Rev D</i>	RH Wiper Deflector	1 Ea (1 ea)	90-Start up Operation
AN3C12A	Bolt	8 Ea (8 ea)	90-Start up Operation
AN4C5A	Bolt	4 Ea (4 ea)	90-Start up Operation
AN4C7A	Bolt	2 Ea (2 ea)	90-Start up Operation
CR3213-5-4	Cherry Rivet	8 Ea (8 ea)	90-Start up Operation
CR3213-4-5	Rivet	24 Ea (24 ea)	90-Start up Operation
91420A230	Screw	13 Ea (13 ea)	90-Start up Operation
NAS1832-3-7	Insert	8 Ea (8 ea)	90-Start up Operation
NAS1832-4-7	Insert	2 Ea (2 ea)	90-Start up Operation
NAS1834C3-300	Insert	2 Ea (2 ea)	90-Start up Operation
MS21042L08	Nut	9 Ea (9 ea)	90-Start up Operation
MS21042L3	Nut	22 Ea (22 ea)	90-Start up Operation
MS21042L4	Nut	4 Ea (4 ea)	90-Start up Operation
MS21059-3	Nut Plate	3 Ea (3 ea)	90-Start up Operation
MS20426AD3-5	Rivet	6 Ea (6 ea)	90-Start up Operation
MS20470AD4-5	Rivet, Universal Head	22 Ea (22 ea)	90-Start up Operation
MS20470AD5-11	Rivet	2 Ea (2 ea)	90-Start up Operation
MS24694-C57	Screw	2 Ea (2 ea)	90-Start up Operation
MS27039-1-18	Screw	4 Ea (4 ea)	90-Start up Operation
MS27039-1-14	Screw	4 Ea (4 ea)	90-Start up Operation
MS27039-08-24	Screw (MS27039-0824)	3 Ea (3 ea)	90-Start up Operation
MS27039-1-13	Screw	13 Ea (13 ea)	90-Start up Operation
MS27039-08-19	Screw	26 Ea (26 ea)	90-Start up Operation
MS27039-1-25	Screw	2 Ea (2 ea)	90-Start up Operation
MS27039-1-08	Screw	2 Ea (2 ea)	90-Start up Operation
MS27039-1-10	Screw	6 Ea (6 ea)	90-Start up Operation
AN970-3	Washer	2 Ea (2 ea)	90-Start up Operation
NAS1149F0332P	Washer	53 Ea (53 ea)	90-Start up Operation
NAS1149FN832P	Washer	18 Ea (18 ea)	90-Start up Operation
NAS1149F0432P	Washer	8 Ea (8 ea)	90-Start up Operation
NAS620C-10L	Washer	8 Ea (8 ea)	90-Start up Operation
601.2045	RTV (LOCTITE 598)	1 Ea (1 ea)	90-Start up Operation
600.1012	Sealant PR1425B2 (#654 sem)	1 pcs (1 ea)	90-Start up Operation
NAS1149F0363P	Washer	16 Ea (16 ea)	90-Start up Operation
649.4817	Shim	4 Ea (4 ea)	90-Start up Operation
649.4820 <i>Rev E</i>	Shim	1 Ea (1 ea)	90-Start up Operation
MS27039-08-13	Screw	12 Ea (12 ea)	90-Start up Operation
NAS1149CN832R	Washer	4 Ea (4 ea)	90-Start up Operation
MS21069-08	Anchor Nut	16 Ea (16 ea)	90-Start up Operation
MS20426AD3-4	Rivet	32 Ea (32 ea)	90-Start up Operation
649.4818	Shim	1 pcs (1 ea)	90-Start up Operation
649.4819 <i>Rev E</i>	Shim	2 Ea (2 ea)	90-Start up Operation
NAS1330S08KB106	Rivnut	8 Ea (8 ea)	90-Start up Operation
MS20426AD4-4	Rivet	4 Ea (4 ea)	90-Start up Operation
NAS9303B-5-03	Rivet	4 Ea (4 ea)	90-Start up Operation

5068555

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	600.1012	1	24	0
	601.2045	1	27	0
	601.3493	2	10	0
	646.9910	4	35	0
	647.9014	8	100	0
	649.4811	1	14	0
	649.4812	3	27	0
	649.4813	4	36	0
	649.4814	2	22	0
	649.4815	4	29	0
	649.4816	3	51	0
	649.4817	4	42	0
	649.4818	1	6	0

649.4819	2	28	0
649.4820	1	20	0
649.4901	1	6	0
649.4902	1	8	0
649.5010	1	5	0
649.5011	1	8	0
649.5012	2	8	0
649.5013	2	8	0
649.5110	2	9	0
649.5111	1	0	0
649.5112	1	0	0
649.5113	2	20	0
649.5210	2	27	0
649.5211	1	11	0
649.5212	1	15	0
649.5213	2	19	0
649.5214	1	15	0
91420A230	13	209	0
AN3C12A	8	179	0
AN4C5A	4	111	0
AN4C7A	2	69	0
AN970-3	2	172	0
CR3213-4-5	24	172	0
CR3213-5-4	8	67	0
MS20426AD3-4	32	3,564	0
MS20426AD3-5	6	8,274	0
MS20426AD4-4	4	1,118	0
MS20470AD4-5	22	3,260	0
MS20470AD5-11	2	988	0
MS21042L08	9	2,147	0
MS21042L3	22	2,092	0
MS21042L4	4	2,942	0
MS21059-3	3	348	0
MS21069-08	16	274	0
MS24694-C57	2	36	0
MS24694-S62	2	91	0
MS27039-08-13	12	381	0
MS27039-08-19	26	1,563	0
MS27039-08-24	3	147	0
MS27039-1-08	2	556	0
MS27039-1-10	6	181	0
MS27039-1-12	2	243	0
MS27039-1-13	13	385	0
MS27039-1-14	4	483	0
MS27039-1-18	4	1,334	0
MS27039-1-25	2	88	0
NAS1149CN832R	4	769	0
NAS1149F0332P	53	1,653	0 5068663
NAS1149F0363P	16	221	0
NAS1149F0432P	8	2,033	0
NAS1149FN832P	18	2,411	0
NAS1330S08KB106	8	286	0 5448224
NAS1330S08KB321	8	0	0
NAS1832-3-7	8	193	0
NAS1832-4-7	2	32	0
NAS1834C3-300	2	150	0 5027
NAS620C-10L	8	173	0
NAS9303B-5-03	4	84	0

Part Specifications

Specifications could not be found.



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Container View (Active) - Master Unit Containers

Tel (613) 632-5200

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
003168	S070656	CR3213-5-4	Cherry Rivet	S066948	ST319	8
003168	S070655	MS20426AD3-4	Rivet	FM134294	ST312	32
003168	S070654	MS20426AD3-5	Rivet	F4533	GA007	6
003168	S070653	MS20426AD4-4	Rivet	FM132536	ST312	4
003168	S070652	MS20470AD4-5	Rivet, Universal Head	S018536	ST311	22
003168	S070651	MS20470AD5-11	Rivet	F107100-1	ST309	2
003168	S070650	MS21042L08	Nut	S044234	ST303	9
003168	S070649	MS21042L3	Nut	S054107	ST303	22
003168	S070648	MS21042L4	Nut	S056039	ST303	4
003168	S070647	MS21059-3	Nut Plate	F123900-3	ST301	3
003168	S070646	MS21069-08	Anchor Nut	S043973	ST299	16
003168	S070645	MS24694-C57	Screw	F123648.0	ST285	2
003168	S070644	MS24694-S62	Screw	F119850.0	ST283	2
003168	S070643	MS27039-08-13	Screw	S019320-1	ST278	12
003168	S070640	MS27039-08-19	Screw	S044235	ST277	26
003168	S070639	MS27039-08-24	Screw (MS27039-0824)	F124326-9	GA015	3
003168	S070638	MS27039-1-08	Screw	S069646	ST281	2
003168	S005145	MS27039-1-10	Screw		ST280	5
003168	S070636	MS27039-1-12	Screw	S049832	ST280	2
003168	S070635	MS27039-1-14	Screw	F124326-4	ST280	4
003168	S070633	MS27039-1-18	Screw	F124326	OVER006	4
003168	S070632	MS27039-1-25	Screw	FM127432	ST279	2
003168	S070631	NAS1149CN832R	Washer	S014734	ST266	4
003168	S070630	NAS1149F0332P	Washer	S068663	ST262	53
003168	S070629	NAS1149F0363P	Washer	S027738	ST262	16
003168	S070628	NAS1149F0432P	Washer	S050055	ST262	8
003168	S070627	NAS1149FN832P	Washer	S020604	ST263	18
003168	S070626	NAS1330S08KB106	Rivnut	S042224	ST261	8
003168	S070625	NAS1832-3-7	Insert	FM127615-2	ST548	8
003168	S070624	NAS1832-4-7	Insert	S007034	ST548	2
003168	S070623	NAS1834C3-300	Insert	F153859	ST549	2
003168	S070622	NAS620C-10L	Washer	fm127432-25	ST552	8
003168	S070621	NAS9303B-5-03	Rivet	FM138484-1	ST553	4

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

Plex 5/11/18 2:09 PM dart.quirion.sonia



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1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
003168	S071161	600.1012	Sealant PR1425B2 (#654 sem)	s065340	CCK017	1
003168	S071162	601.2045	RTV (LOCTITE 598)	s068314	CCK096	1
003168	S071173	646.9910	Struts	s054537	CCK014	4
003168	S071233	647.9014	Strut Bracket	f93290	CCK117	8
003168	S071232	649.4811	Clip	s066635	CCK121	1
003168	S071163	649.4812	Shim	s019437	CCK062	3
003168	S072023	649.4814	Doubler	S064989	CCK121	2
003168	S071165	649.4815	Shim	s053345	CCK062	4
003168	S072014	649.4816	Doubler	S059859	CCK063	1
003168	S071231	649.4817	Shim	s053319	CCK121	4
003168	S071230	649.4819	Shim	s066636	CCK121	2
003168	S071164	649.4820	Shim	s066657	CCK121	1
003168	S071225	649.4902	Lower Cutter Assembly	s071222	ST	1
003168	S071229	649.5011	Deflector	s014906	CCK122	1
003168	S072015	649.5112	RH Wiper Deflector	S069555	CCK064	1
003168	S071228	649.5113	Wiper Deflector Shim	s064173	CCK122	2
003168	S071227	649.5210	Doubler	s053238	CCK122	2
003168	S071226	649.5211	Shim	f108557	CCK122	1
003168	S071186	649.5212	Bracket	s059207	CCK102	1
003168	S071185	649.5213	Doubler	s050479	CCK124	2
003168	S071183	649.5214	Bracket	s059211	CCK124	1
003168	S071097	91420A230	Screw	S042730	ST588	13
003168	S071096	AN3C12A	Bolt	S057518	ST349	8
003168	S071095	AN4C5A	Bolt	S019407	ST345	4
003168	S071094	AN4C7A	Bolt	S027516	ST345	2
003168	S071093	AN970-3	Washer	S003924	ST321	2
003168	S071092	CR3213-4-05	Rivet	S019315	ST319	24
003168	S070656	CR3213-5-4	Cherry Rivet	S066948	ST319	8
003168	S070655	MS20426AD3-4	Rivet	FM134294	ST312	32
003168	S070654	MS20426AD3-5	Rivet	F4533	GA007	6
003168	S070653	MS20426AD4-4	Rivet	FM132536	ST312	4
003168	S070652	MS20470AD4-5	Rivet, Universal Head	S018536	ST311	22
003168	S070651	MS20470AD5-11	Rivet	F107100-1	ST309	2
003168	S070650	MS21042L08	Nut	S044234	ST303	9
003168	S070649	MS21042L3	Nut	S054107	ST303	22
003168	S070648	MS21042L4	Nut	S056039	ST303	4
003168	S070647	MS21059-3	Nut Plate	F123900-3	ST301	3
003168	S070646	MS21069-08	Anchor Nut	S043973	ST299	16
003168	S070645	MS24694-C57	Screw	F123648.0	ST285	2
003168	S070644	MS24694-S62	Screw	F119850.0	ST283	2
003168	S070643	MS27039-08-13	Screw	S019320-1	ST278	12
003168	S070640	MS27039-08-19	Screw	S044235	ST277	26
003168	S070639	MS27039-08-24	Screw (MS27039-0824)	F124326-9	GA015	3
003168	S070638	MS27039-1-08	Screw	S069646	ST281	2
003168	S005145	MS27039-1-10	Screw		ST280	5
003168	S070636	MS27039-1-12	Screw	S049832	ST280	2
003168	S070635	MS27039-1-14	Screw	F124326-4	ST280	4
003168	S070633	MS27039-1-18	Screw	F124326	OVER006	4
003168	S070632	MS27039-1-25	Screw	FM127432	ST279	2

exp. 12/2019
exp. 12/2019

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S054

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
003168	S070631	NAS1149CN832R	Washer	S014734	ST266	4
003168	S070630	NAS1149F0332P	Washer	S068663	ST262	53
003168	S070629	NAS1149F0363P	Washer	S027738	ST262	16
003168	S070628	NAS1149F0432P	Washer	S050055	ST262	8
003168	S070627	NAS1149FN832P	Washer	S020604	ST263	18
003168	S070626	NAS1330S08KB106	Rivnut	S042224	ST261	8
003168	S070625	NAS1832-3-7	Insert	FM127615-2	ST548	8
003168	S070624	NAS1832-4-7	Insert	S007034	ST548	2
003168	S070623	NAS1834C3-300	Insert	F153859	ST549	2
003168	S070622	NAS620C-10L	Washer	fm127432-25	ST552	8
003168	S070621	NAS9303B-5-03	Rivet	FM138484-1	ST553	4

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

Plex 5/16/18 2:52 PM dart.quirion.sonia

649.4813 S059664 4X

6-19.5111 S068528 1X

649.4901 S071296

649.5012 S069654 2X

649.5110 S073123 1X

649.5010 S073222 1X

MS27039-1413 S071833 13X

601.3494 F123579 2X

649.24818 S069951X1

649.5013 (2X) S074881

CC-558KB321 S091792 1X

RE: ORDER 5958-1551- 3087

Linda Lacelle

Wed 2018-05-30 1:54 PM

to: Sonia Quirion <squirion@dartaero.com>; Chantal Chartrand <cchartrand@dartaero.com>; Caitlin Crooks <ccrooks@dartaero.com>;
Jennifer Renwick <jrenwick@dartaero.com>;

cc: Jackson Lin <jlin@dartaero.com>;

Shit – sorry guys – that is the correct P/N that has to be added...not the one I wrote- sorry

From: Sonia Quirion

Sent: Wednesday, May 30, 2018 1:38 PM

To: Chantal Chartrand <cchartrand@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>; Caitlin Crooks <ccrooks@dartaero.com>; Jennifer Renwick <jrenwick@dartaero.com>

Subject: Re: ORDER 5958-1551- 3087

linda ist not the NAS1330S08KB106 but NAS1330S08kb321

From: Chantal Chartrand

Sent: May 30, 2018 1:32:50 PM

To: Linda Lacelle; Caitlin Crooks; Jennifer Renwick

Cc: Sonia Quirion

Subject: RE: ORDER 5958-1551- 3087

Re: order 1551, I am waiting for the go ahead before revising. Caitlin will let me know if the customer is ok with this.

From: Linda Lacelle

Sent: May 30, 2018 10:33 AM

To: Caitlin Crooks <ccrooks@dartaero.com>; Jennifer Renwick <jrenwick@dartaero.com>; Chantal Chartrand <cchartrand@dartaero.com>

Cc: Sonia Quirion <squirion@dartaero.com>

Subject: RE: ORDER 5958-1551- 3087

For both orders 1551 and 3087 – we will NOT be shipping the NAS1330S08KB106's

Pls add to each order

3087 x 24

1551 x 16

These are only scheduled to arrive in Aug

From: Caitlin Crooks

Sent: Monday, May 28, 2018 4:25 PM

To: Linda Lacelle <llacelle@dartaero.com>

Subject: ORDER 5958-1551- 3087

Hi Linda

FW: OMG -can you order a min of 10 and have them arrive demain????????????????????

Chantal Lavoie

Wed 2018-05-30 2:14 PM

to: Sonia Quinon <squinon@dartaero.com>

Voila Sonia,

Attacher avec w/o pour cable cutter.

Merci

Chantal

From: Linda Lacelle

Sent: Wednesday, May 30, 2018 12:07 PM

To: Pablo Bravo <pbravo@dartaero.com>

Cc: Chantal Lavoie <clavoie@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>

Subject: RE: OMG -can you order a min of 10 and have them arrive demain????????????????????

Perfect- thx!!

From: Pablo Bravo

Sent: Wednesday, May 30, 2018 11:57 AM

To: Linda Lacelle <llacelle@dartaero.com>

Cc: Chantal Lavoie <clavoie@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>

Subject: RE: OMG -can you order a min of 10 and have them arrive demain????????????????????

Hi Linda,

Yes, you can use the old ones if they are supposed to get to you sooner.

Pablo

From: Linda Lacelle

Sent: Wednesday, May 30, 2018 8:47 AM

To: Pablo Bravo <pbravo@dartaero.com>

Cc: Chantal Lavoie <clavoie@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>

Subject: FW: OMG -can you order a min of 10 and have them arrive demain????????????????????

Importance: High

HELP

Pablo – I have 5 kits that have to ship tomorrow, and these are not due in until mid July – can we use the old ones ?

From: Chantal Lavoie

Sent: Wednesday, May 30, 2018 11:22 AM

To: Linda Lacelle <llacelle@dartaero.com>

Subject: RE: OMG -can you order a min of 10 and have them arrive demain????????????????????

No sorry we can't pip pin on order as per ECN03537, delivery July 19.

C

From: Linda Lacelle

Sent: Wednesday, May 30, 2018 10:39 AM

To: Chantal Lavoie <clavoie@dartaero.com>

Subject: OMG -can you order a min of 10 and have them arrive demain????????????????????

Inventory Check

Part No: 601.3493

Container Type:

Warehouse:

Search

Part No / Component	Unit	Demand						Inventory						Reference	
		Orders		Job Reqd		Order Reqd		Finished Goods				WIP		Jobs	
		Qty	Weight	Qty	Weight	Qty	Weight	Qty	Weight	Packaged		Qty	Weight	Qty	Weight
601.3493	Ea	0	0	8	0	10	0	0	0	0	0	0	0	0	0

601.3493 Available to Sell				
	(FG - Orders)	(FG - Demand)	(Inventory - Orders)	(Inventory - Demand)
Quantity (Ea):	0	-18	0	-18
Weight:	0	0	0	0



Vista, July 5, 2018

Leonardo Helicopters
AgustaWestland Philadelphia Corp
3076 Red Lion Rd
Philadelphia, PA
United States

Subject: Substitution of NAS1330S08KB321 Rivnut (ref. FAA STC SR02425LA)

To Whom This May Concern:

Due to a shortage of Rivnut P/N NAS1330S08KB321, and to reduce procurement delays, this letter is issued to confirm that it is acceptable to replace Rivnut P/N NAS1330S08KB321 referred to in IIA119-3 Rev. G (F/N 80 on page 14) with Rivnut P/N CC-SS8KB321.

In all other aspects, installation, maintenance and operation of the AW119 Cable Cutters Kit P/N 649.4701 must be per FAA STC SR02425LA.

The Kits affected by this minor deviation are: 649.4701 S/Ns, S076264, S076286, S076307, S076328 and S076365.

If you have further questions or concerns, don't hesitate to contact the DART Technical Support Team by email at support.ca@dartaero.com or through the DART Aerospace website (www.dartaerospace.com).

Sincerely,

A handwritten signature in black ink, appearing to read "J. Becker", written over a horizontal line.

Jacob Becker
Project Engineer
DART Aerospace – Vista, CA

Address
3030 Enterprise Court, Suite A
Vista, California
92081-8347

Contact
T 1 760 724-5300
F 1 760 758-9612
www.dartaerospace.com

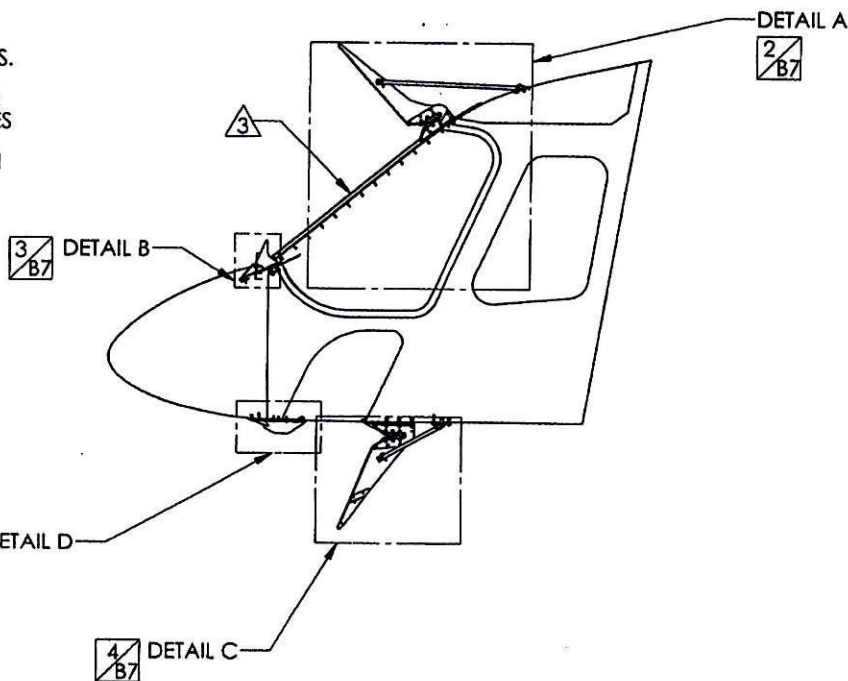
Sales
T 1 800 556-4166
F 1 613 632-4443
E sales@dartaero.com

Mission
Ready.

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NOTES:

- 1 APPLY F/N 62 TO FAYING SURFACES.
- 2 AFTER INSTALLATION, APPLY F/N 63 A/R TO FILL GAPS AND FILLET EDGES
- 3 MATCH DRILL HOLE ON TAB OF F/N 13 TO FIT RIVET F/N 45
- 4 REQUIRED QTY
F/N 12: 1
F/N 15: 2
F/N 17: 1
INSTALL EXTRA AS NEEDED
- 5 INSTALL ONLY IF REQUIRED
- 6 TRIM AFT EDGE AS REQUIRED



REV.	DESCRIPTION	DATE	APPROVED
1	DATE PROJECT STARTED: 02/01/2012		
2	INITIAL RELEASE	01-24-13	P. BRAVO
3	INCORPORATED ECH 0344, 0349	04-17-13	P. BRAVO
4	INCORPORATED ECH 0352	05-29-13	P. BRAVO
5	INCORPORATED ECH 0372, 0383, 0484, 0553	07-26-14	P. BRAVO
6	INCORPORATED ECH 0571	04-04-17	P. BRAVO
7	INCORPORATED ECH 0581	05-03-17	P. BRAVO
8	INCORPORATED ECH 0584, 0587, 0590	03-08-18	P. BRAVO

8	80	NAS1330S08 K8321	RIVNUT	NAS1330S08K8321		8	61	601.2381	WASHER	NAS420C-10L	
2	79	601.1953	SCREW	MS27039-1-12		8	60	601.2638	WASHER	NAS1149D432P	
2	78	649.5113	WIPER DEFLECTOR SHIM			18	59	601.2764	WASHER	NAS1149D432P	
4	77	601.4085	RIVET	NAS1330S08-5-03		53	58	601.1607	WASHER	NAS1149D432P	
4	76	600.0846	RIVET	MS20424AD-4		2	57	601.3470	WASHER	AN470-3	
8	75	601.4084	RIVNUT	NAS1330S08K106		6	56	601.1365	SCREW	MS27039-1-10	
2	74	649.4819	SHIM			2	55	601.1621	SCREW	MS27039-1-08	
1	73	649.4818	SHIM			2	54	601.3289	SCREW	MS27039-1-25	
32	72	601.1710	NUTPLATE RIVET	MS20424AD-3-4		26	53	601.2765	SCREW	MS27039-0819	
16	71	601.4083	NUTPLATE	MS2104RUB		13	52	601.3190	SCREW	MS27039-1-13	
4	70	601.1869	WASHER	NAS1149D432P		3	51	601.3124	SCREW	MS27039-0824	
12	69	601.2988	SCREW	MS27039-0813		4	50	601.1622	SCREW	MS27039-1-14	
1	68	649.4820	SHIM			4	49	601.2910	SCREW	MS27039-1-18	
4	67	649.4817	SHIM			2	48	MS24694562	SCREW	MS24694562	
16	66	601.3151	WASHER	NAS1149D432P			47		DELETED		
3	65	601.1887	NUT	MS21042-4		2	46	601.3146	SCREW	MS24694562	
	64		DELETED			2	45	601.1125	RIVET	MS20470AD-5-11	
1	63	600.1012	SEALANT	PR-1423 CLASS B			44		DELETED		
1	62	601.2045	RTV	LOCTITE 598			43		DELETED		
4701	FIND #	PART #	DESCRIPTION	MATL	SPEC.	4701	FIND #	PART #	DESCRIPTION	MATL	SPEC.
						22	42	601.1119	RIVET	MS20470AD-5-3	

6	41	601.1616	RIVET	MS20424AD-3-5	
3	40	601.1900	NUTPLATE	MS21059-3	
1	39	601.3209	LOCKNUT	MS21042-4	
22	38	601.1624	LOCKNUT	MS21042-3	
9	37	601.1541	LOCKNUT	MS21042-08	
2	36	601.3008	INSERT	NAS1834C-3-300	
2	35	601.3468	INSERT	NAS1832-4-7	
8	34	601.3459	INSERT	NAS1832-3-7	
	33		DELETED		
13	32	601.4061	SCREW	91420A230	DN965
	31		DELETED		
24	30	601.1183	RIVET	CR3213-4-6	
	29		DELETED		
8	28	601.2481	CHERRY RIVET	CR3213-5-4	
	27		DELETED		
2	26	601.2669	BOLT	AN4C7A	
4	25	601.3555	BOLT	AN4C5A	
8	24	601.0788	BOLT	AN3C12A	
1	23	649.5112	WIPER DEFLECTOR		
1	22	649.5111	WIPER DEFLECTOR		
2	21	649.5110	WIPER DEFLECTOR		
8	20	647.9014	STRUT BRACKET		
4	19	646.9910	STRUT		
4	18	649.4815	SHIM		
1	17	649.4812	SHIM		
2	16	649.5213	SHIM		
2	15	649.4813	SHIM		
1	14	649.5211	SHIM		
2	13	601.3493	QUICK RELEASE PIN	BL385105LSC4	
1	12	649.4816	DOUBLER		
2	11	649.4814	DOUBLER		
2	10	649.5210	DOUBLER		
1	9	649.5011	DEFLECTOR		
2	8	649.5013	DEFLECTOR		
2	7	649.5012	DEFLECTOR		
1	6	649.4811	CLIP		
1	5	649.5212	BRACKET		
1	4	649.5214	BRACKET		
1	3	649.5010	DEFLECTOR		
1	2	649.4902	LOWER CUTTER ASSY		
1	1	649.4901	UPPER CUTTER ASSY		
X		649.4701	A119 CABLE CUTTERS KIT		
4701	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY

NEXT ASSY (S)

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
3 PLACES DECIMALS 1000
2 PLACES DECIMALS 100
1 PLACE DECIMAL 10
ANGLES 1°

SCALE NONE

SHEET 1 OF 5

3030 ENTERPRISE CT.
SUITE A
VISTA, CA 92081
(760)-724-5300

DART
AEROSPACE
APICAL INDUSTRIES, INC.
DBA DART AEROSPACE

A119 CABLE CUTTERS KIT

REV. F

649.4700